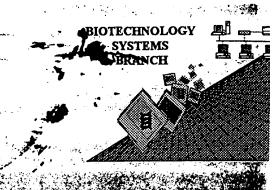
RAW SEQUENCE LISTING
ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number: 09/367,0/3

Art Unit / Team No.: 1652

Date Processed by STIC: 5/5/2000

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,
- 2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

**MARK SPENCER 703-308-4212** 



-->



DATE: 05/05/2000 TIME: 11:03:38

INPUT SET: S35428.raw

This Raw Listing contains the General Information Section and those Sequences containing ERRORS.

1	SEQUENCE LISTING  (1) General Information:  (i) APPLICANT: KNUTZON, DEBORAH  MURKERJI, PRADIP  HUANG, YUNG-SHENG  THURMOND, JENNIFER  CHAUDHARY, SUNITA  LEONARD, AMANDA  (ii) TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR SYNTHESIS
2	Coultinged
3	(1) General Information:
4	Does Disks
5	(i) APPLICANT: KNUTZON, DEBORAH
6	MURKERJI, PRADIP
7	HUANG, YUNG-SHENG
8	THURMOND, JENNIFER
9	CHAUDHARY, SUNITA
10	LEONARD, AMANDA
11	
12	
13	OF LONG CHAIN POLY-UNSATURATED FATTY ACIDS
14	
15	(iii) NUMBER OF SEQUENCES: 40
16	// >
17	(iv) CORRESPONDENCE ADDRESS:
18	(A) ADDRESSEE: LIMBACH AND LIMBACH LLP
19	(B) STREET: 2001 FERRY BUILDING
20	(C) CITY: SAN FRANCISCO
21 22	(D) STATE: CA (E) COUNTRY: USA
23	(F) ZIP: 94111
24	\r', ZIF. 54111
25	(v) COMPUTER READABLE FORM:
26	(A) MEDIUM TYPE: Floppy disk
27	(B) COMPUTER: IBM PC compatible
28	(C) OPERATING SYSTEM: PC-DOS/MS-DOS
29	(D) SOFTWARE: Microsoft Word
30	
31	(vi) CURRENT APPLICATION DATA:
32	(A) APPLICATION NUMBER:
33	(B) (B) FILING DATE:
34	delice (C) CLASSIFICATION:
35	
36 37	(viii) ATTORNEY/AGENT INFORMATION: (A) NAME: WARD, MICHAEL R.
3 <i>1</i> 38	(A) NAME: WARD, MICHAEL R. (B) REGISTRATION NUMBER: 38,651
39	(C) REFERENCE/DOCKET NUMBER: CGAB-210
40	(C) REFERENCE/ DOCKET NOTEDER. COMP 210
41	(ix) TELECOMMUNICATION INFORMATION:
42	(A) TELEPHONE: (415) 433-4150
43	(B) TELEFAX: (415) 433-8716
44	(C) TELEX: N/A
45	

## RAW SEQUENCE LISTING PATENT APPLICATION US/09/367,013

DATE: 05/05/2000 TIME: 11:03:38

INPUT SET: S35428.raw

46

### **ERRORED SEQUENCES FOLLOW:**

	857	(2)	INFO	ORMA'	rion	FOR	SEQ	ID I	NO:2	0:						
	858															
	859		(i)	) SE	QUEN	CE C	HARA	CTER	ISTI	<del>CS+</del> -		(1)	28	1		1
>	860			()							ds	) Lo	28,	200	ur	,
	861			(1	B) T	YPE:	ami	no a	cid *							
	862			((	C) Si	ran:	DEDN	ESS:	Not	Rel	evan	t				
	863			(1	D) T(	OPOL	OGY:	line	ear							
	864															
	865		(ii)	) MOI	LECUI	LE T	YPE:	pep	tide							
	866															
	867		(xi)	) SE	QUEN	CE D	ESCR:	IPTI	ON:	SEQ :	ID NO	0:20	:			
	868															
	869	Tyr	Val	Thr	Pro	Phe	Gln	Thr	Arq	Ser	Trp	Tyr	His	Lys	Tyr	Gln
	870	1				5					10	•		-	•	15
	871	His	Ile	Tyr	Ala	Pro	Leu	Leu	Tvr	Glv	Ile	Tvr	Thr	Leu	Lvs	Tvr
	872			-1-		20			-1-	2	25	-1-			2	30
	873	Ara	Thr	Gln	Asp		Glu	Ala	Phe	Val	Lvs	Asp	Glv	Lvs	Asn	
	874	3				35					40		1	-7-		45
	875	Δla	Tle	Arg	Va 1		Val	Δla	Thr	Asn	Phe	Asp	Lvs	Δla	Δla	
	876				· u =	50	•			11011	55		_,_			60
	877	va 1	Tle	Gly	Taze		Ser	Phe	Va 1	Phe		Δτα	Phe	Tle	T.e.11	
	878	Val	110	CLY	פעם	65	DCI	1110	Vai	1110	70	nr 9	1110	<b>410</b>	шеи	75
	879	T 11	λνα	Tyr	uic		Dhe	Thr	Agn	T.011		Ctra	Тугт	Dhe	T.011	
	880	Deu	AL 9	TYL	1113	80	FIIC	1111	vab	шец	85	Cys	TYL	FIIC	цец	90
	881	ח ז ח	C1,,	Phe	77a 1		C111	Trans	П- 22	T 011		T1_	λcn	Dho	Cln	
	882	Ата	GIU	FILE	vai	95	СТУ	тър	ıyı	цец	100	116	ASII	FIIE	GIII	105
			*** -	**- 1	31-		3	T	T	Dh.		71.	mb	D	<b>~1</b>	
	883	ser	HIS	Val	Ala		Asp	ьeu	гля	Pne		Ald	THE	PIO	GIU	_
	884	<b>D</b>	<b>-</b>	<b>~</b> 1	D	110	<b>01</b>	-1-	3	<b>~</b> 1	115			-7-	T	120
	885	Pro	Asp	Glu	Pro		GIN	тте	Asn	GIU	-	Trp	Ата	тте	ьeu	
	886			m1	<b>m</b> 1	125		m	<b>a</b> 1		130	<b>a</b>	<b>-</b>	<b>-</b>	<b>a</b>	135
	887	ьeu	гуѕ	Thr	Thr		Asp	ıyr	GIY	HIS	_	ser	Leu	Leu	Cys	
	888	_,	_,	_		140	_	_	•	~ 7	145				_	150
	889	Phe	Pne	Ser	GIĀ		Leu	Asn	His	GIn		vaı	His	HIS	Leu	
	890	_	_			155	_		_	_	160	_		_		165
	891	Pro	Ser	Ile	Ala		Asp	Phe	Tyr	Pro		Leu	Val	Pro	Ile	
	892					170				_	175					180
	893	Lys	Glu	Val	Cys	Lys	Glu	His	Asn	Ile		Tyr	His	Ile	Lys	
	894					185					190					195
	895	Asn	Phe	Thr	Glu	Ala	Ile	Met	Ser	His	Ile	Asn	Tyr	Leu	Tyr	Lys
	896					200					205					210
	897	Met	Gly	Asn	Asp	Pro	Asp	Tyr	Val	Lys	Lys	Pro	Leu	Ala	Ser	Lys
	898					215					220					225
	899	Asp	Asp	Xaa												
	900	_	-													
	901															

#### RAW SEQUENCE LISTING PATENT APPLICATION US/09/367,013

DATE: 05/05/2000 TIME: 11:03:39

		INPUT SET: S35428.raw
	928	
	929	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 amino acids / C2 slows
>	930	
	931	(B) TYPE: amino acid
	932	(C) STRANDEDNESS: Not Relevant
	933	(D) TOPOLOGY: linear
	934	(ii) NOI ECUI E TUDEido
	935	(ii) MOLECULE TYPE: peptide
	936 937	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:
	938	(XI) SEQUENCE DESCRIPTION: SEQ ID NO:22:
	939	Phe Trp Lys Xaa Pro Ser Xaa Pro Arg Xaa Xaa Gln Val Xaa Gly
	940	1 5 10 15
	941	Ala Glu Xaa Gly Phe Pro Pro Lys Pro Phe Val Asp Trp Phe Cys
	942	20 25 30
	943	Gly Gly Phe Gln Tyr Gln Val Asp His His Leu Phe Pro Ser Leu
	944	35 40 45
	945	Pro Arg His Asn Leu Ala Lys Thr His Ala Leu Val Glu Ser Phe
	946	50 55 60
	947	Cys Lys Glu Trp Gly Val Gln Tyr His Glu Ala Asp Leu Val Asp
	948	65 7 <b>0</b> 75
	949	Gly Thr Met Glu Val Leu His His Leu Gly Ser Val Ala Gly Glu
	950	(65) 80 (70) 85 (75) 90
	951	Phe Val Val Asp Phe Val Arg Asp Gly Pro Ala Met
	952	(80) (85)
	953	95 /00
	954	
	955 956	
	957	
	958	
	959	(2) INFORMATION FOR SEQ ID NO:23:
	960	This should be
	961	(2) INFORMATION FOR SEQ ID NO:23:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 520 pucheic acids
>	962	(A) DEMOIN: 520 INCIESC ACIDS
	963	(B) TYPE: amino acid hucleic a cid
	964	(C) STRANDEDNESS: Not Relevant
	965	(D) TOPOLOGY: linear
	966 967	(ii) MOLECULE TYPE: nucleic acid Borr below are in bold
	968	(II) MODECODE TIPE: nucleic acid
	969	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23: prut du Foalme enn.
	970	(MIL) DESCRIPTION DESCRIPTION OF THE TOTAL O
	971	
>i	972	GGATGGAGTT CGTCTGGATC GCTGTGCGCT ACGCGACGTG GTTTAAGCGT CATGGGTGCG 60
19-2	/973	CTTGGGTACA CGCCGGGGCA GTCGTTGGGC ATGTACTTGT GCGCCTTTGG TCTCGGCTGC 120
//>\ <i>/</i>	974	ATTTACATTT TTCTGCAGTT CGCCGTAAGT CACACCCATT TGCCCGTGAG CAACCCGGAG 180
ر>[	975	GATCAGCTGC ATTGGCTCGA GTACGCGCGG ACCACACTGT GAACATCAGC ACCAAGTCGT 240
>/\	976	GGTTTGTCAC ATGGTGGATG TCGAACCTCA ACTTTCAGAT CGAGCACCAC CTTTTCCCCA 300
· الحت	977	CGGCGCCCCA GTTCCGTTTC AAGGAGATCA GCCCGCGCGT CGAGGCCCTC TTCAAGCGCC 360
>	978	ACGGTCTCCC TTACTACGAC ATGCCCTACA CGAGCGCCGT CTCCACCACC TTTGCCAACC 420
>	979	TCTACTCCGT CGGCCATTCC GTCGGCGACG CCAAGCGCGA CTAGCCTCTT TTCCTAGACC 480

## RAW SEQUENCE LISTING PATENT APPLICATION US/09/367,013

DATE: 05/05/2000 TIME: 11:03:39

∗d	980 981 982	TTAATTCCCC ACCCCACCC ATGTTCTGTC TTCCTCCCGC 520
	1043	(2) INFORMATION FOR SEQ ID NO:26:
	1044	(2) INICIALIZATION FOR DEG ID NO.20.
	1045	(i) SEQUENCE CHARACTERISTICS:
>	1046	(A) LENGTH: 125 amino acids #10 shows
	1047	(B) TYPE: amino acid
	1048	(C) STRANDEDNESS: Not Relevant
	1049	(D) TOPOLOGY: linear
	1050	(=, ===================================
	1051	(ii) MOLECULE TYPE: peptide
	1052	(, <b>F</b> - <b>F</b>
	1053	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:
	1054	1,
	1055	
	1056	Arg Val Arg Pro Arg Val Arg Arg Glu Gln Leu Ile Lys Glu Gly
	1057	1 5 10 15
	1058	Tyr Phe Asp Pro Ser Leu Pro His Met Thr Tyr Arg Val Val Glu
	1059	20 25 30
	1060	Ile Val Val Leu Phe Val Leu Ser Phe Trp Leu Met Gly Gln Ser
	1061	35 40 45
	1062	Ser Pro Leu Ala Leu Ala Leu Gly Ile Val Val Ser Gly Ile Ser
	1063	50 55 60
	1064	Gln Gly Arg Cys Gly Trp Val Met His Glu Met Gly His Gly Ser
	1065	65 70 75
	1066	Phe Thr Gly Val Ile Trp Leu Asp Asp Arg Leu Cys Glu Phe Phe
	1067	(70)85
	1068	Tyr Gly Val Gly Cys Gly Met Ser Gly Ris Tyr Trp Lys Asn Gln 80 85 90 His Ser Lys His His Ala Ala Pro Asn Arg Leu Glu His Asp Val 95 100 Asp Leu Asn Thr Leu Pro Leu Val Ala Phe Asn Glu Arg Val Val
	1069	80 85 90 / Warry Wig Nig Nig Nig Nig Nig Nig Nig Nig Nig N
	1070 1071	His Ser Lys His His Ala Ala Pro Asn Arg Leu Glu His Asp Val 95 100 105
	1071	Asp Leu Asn Thr Leu Pro Leu Val Ala Phe Asn Glu Arg Val Val
	1072	110 115 120
	1074	Arg Lys Val Arg Pro
	1075	125
	1076	
	1478	(2) INFORMATION FOR SEQ ID NO:34:
	1479	
	1480	(i) SEQUENCE CHARACTERISTICS:
>	1481	(A) DENGIA TII amino acida
	1482	(B) TYPE: amino acid
	1483	(C) STRANDEDNESS: single
	1484	(D) TOPOLOGY: linear
	1485	(ii) MOIECHE TYPE, amino acid (Translation of Contic 2692004)
	1486 1487	(ii) MOLECULE TYPE: amino acid (Translation of Contig 2692004)
	1487	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:
	1489	(VI) phyopher procurration, pro in no.24;
	1490	
	1491	His Ala Asp Arg Arg Glu Ile Leu Ala Lys Tyr Pro Glu Ile
	<b>-</b>	

## RAW SEQUENCE LISTING PATENT APPLICATION US/09/367,013

DATE: 05/05/2000 TIME: 11:03:39

														11	VIUI	SEI.	33344	20./uw
1492	1				5					10					15			
1493	Lys	Ser	Leu	Met	Lys	Pro	Asp	Pro	Asn	Leu	Ile	$\mathtt{Trp}$	Ile	Ile	Ile			
1494					20					25					30			
1495	Met	Met	Val	Leu	Thr	Gln	Leu	Gly	Ala	Phe	Tyr	Ile	Val	Lys	Asp			
1496			•		35					40					45			
1497	Leu	Asp	Trp	Lys	Trp	Val	Ile	Phe	Gly	Ala	Tyr	Ala	Phe	Gly	Ser			
1498					50					55					60			
1499	Cys	Ile	Asn	His	Ser	Met	Thr	Leu	Ala	Ile	His	Glu	Ile	Ala	His			
1500					65					70					75			
1501	Asn	Ala	Ala	Phe	Gly	Asn	Cys	Lys	Ala	Met	Trp	Asn	Arg	Trp	Phe			
1502					80					85					90			
1503	Gly	Met	Phe	Ala	Asn	Leu	Pro	Ile	Gly	Ile	Pro	Tyr	Ser	Ile	Ser			
1504					95					100					105			
1505	Phe	Lys	Arg	Tyr	His	Met	Asp	His	His	Arg	Tyr	Leu	Gly	Ala	Asp			
1506		-	_	-	110					115					120			
1507	Gly	Val	Asp	Val	Asp	Ile	Pro	Thr	Asp	Phe	Glu	Gly	Trp	Phe	Phe	·		
1508	_		_		125					130					135			
1509	Cys	Thr	Ala	Phe	Arg	Lys	Phe	Ile	Trp	Val	Ile	Leu	Gln	Pro	Leu			
1510	_				140	_			_	145					150			
1511	Phe	Tyr	Ala	Phe	Arg	Pro	Leu	Phe	Ile	Asn	Pro	Lys	Pro	Ile	Thr			
1512		-			155					160		_			165			
1513	Tyr	Leu	Glu	Val	Ile	Asn	Thr	Val	Ala	Gln	Val	Thr	Phe	Asp	Ile			
1514	-				170					175				_	180			
1515	Leu	Ile	Tyr	Tyr	Phe	Leu	Gly	Ile	Lys	Ser	Leu	Val	Tyr	Met	Leu			
1516			-	•	185		_		-	190			_		195			
1517	Ala	Ala	Ser	Leu	Leu	Gly	Leu	Gly	Leu	His	Pro	Ile	Ser	Gly	His			
1518					200					205					210			
1519	Phe	Ile	Ala	Glu	His	Tyr	Met	Phe	Leu	Lys	Gly	His	Glu	Thr	Tyr			
1520					215					220					225	•		
1521	Ser	Tyr	Tyr	Gly	Pro	Leu	Asn	Leu	Leu	Thr	Phe	Asn	Val	Gly	Tyr			
1522					230					235					240			
1523	His	Asn	Glu	His	His	Asp	Phe	Pro	Asn	Ile	Pro	Gly	Lys	Ser	Leu			
1524					245					250					255			
1525	Pro	Leu	Val	Arg	Lys	Ile	Ala	Ala	Glu	Tyr	Tyr	Asp	Asn	Leu	Pro			
1526					260					265					270			
1527	His	Tyr	Asn	Ser	$\mathtt{Trp}$	Ile	Lys	Val	Leu	Tyr	Asp	Phe	Val	Met				
1528					275					280					285			
1529	Asp	Thr	Ile	Ser	Pro	Tyr	Ser	Arg	Met	Lys	Arg	His	Gln	Lys	_			
1530					290					295			_		300			
1531	Glu	Met	Val	Leu	Glu	Xaa	Ile	Ser	Leu	Val	Pro	Lys	Gly	Phe				
1532			_		305					310			_		315			
1533	Ser	Lys	Thr	Leu	Asp	Asp	Lys	Met	GLu		Leu	His	Tyr	Xaa				
1534					320					325					330			
1535	Xaa	Asp	Gln	Xaa	Cys	Ser	Glu	Ala	Pro		Ala	GIn	Phe	Gln				
1536					335					340					345			
1537	Lys	Ser	Ser	Val	Ile	Pro	Arg	Ser	Glu		Gly	Phe	Xaa	Thr				
1538			_		350		_	<b>-</b>	_	355	_•			_	360			
1539	Ser	Leu	Thr	Leu	Tyr	Cys	Ser	Val	Ser		Thr	GLY	Asn	Leu				
1540	_		_	_	365				_	370		•			375			
1541	Leu	۷al	Tyr	Tyr	Arg	His	Xaa	GŢĀ	Cys		Thr	His	Val	Cys				
1542	_,		_		380	_,	_	_	_	385	_	<b>.</b> .		-1	390			
1543	Phe	TTE	ser	TIE	ser	1	гàг	гÀг	Leu		Tys	ser	ıyr	rne	Ala	`		
1544				(	400	/			(	405	ノ			(	410	)		
										100					1.1	•		
					39	>			•	100				2	70)			

## RAW SEQUENCE LISTING PATENT APPLICATION US/09/367,013

DATE: 05/05/2000 TIME: 11:03:40

		INPUI SEI: S35428.raw
	1545	Arg
	1546	
	1500	(a) TWOODWANTON TOD GOO TO WO 26
	1593	(2) INFORMATION FOR SEQ ID NO:36:
	1594	(i) GEOUENGE GUADAGERTORTOG.
_	1595 <b>1596</b>	(i) SEQUENCE CHARACTERISTICS: 87 plans
	1597	(B) TYPE: amino acid
	1598	(C) STRANDEDNESS: single
	1599	(D) TOPOLOGY: linear
	1600	(b) 10102001. 1111cut
	1601	(ii) MOLECULE TYPE: amino acid (Translation of Contig 3506132)
	1602	(11) 1.0220022 11121 4220 4014 (1141101401011 01 0011015
	1603	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:
	1604	(
	1605	
	1606	
	1607	Val Phe Tyr Phe Gly Asn Gly Trp Ile Pro Thr Leu Ile Thr Ala
	1608	1 5 10 15
	1609	Phe Val Leu Ala Thr Ser Gln Ala Gln Ala Gly Trp Leu Gln His
	1610	20 25 30
	1611	Asp Tyr Gly His Leu Ser Val Tyr Arg Lys Pro Lys Trp Asn His
	1612	35 40 45
	1613	Leu Val His Lys Phe Val Ile Gly His Leu Lys Gly Ala Ser Ala
	1614	50 55 60
	1615	Asn Trp Trp Asn His Arg His Phe Gln His His Ala Lys Pro Asn
	1616	65 70 75
	1617	Leu Gly Glu Trp Gln Pro Ile Glu Tyr Gly Lys Xaa
	1618 1619	80 85
	1620	
	1621	
	1679	(2) INFORMATION FOR SEQ ID NO:38:
	1680	
	1681	(i) SEQUENCE CHARACTERISTICS:
>	1682	(a) LENGTH: 566 amino acids 562
	1683	(B) TYPE: amino acid
	1684	(C) STRANDEDNESS: single
	1685	(D) TOPOLOGY: linear
	1686	
	1687	(ii) MOLECULE TYPE: amino acid (Translation of Contig 2511785)
	1688	( )
	1689	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:
	1690	
	1691	His Lou Luc Clu Ala Com Ala Asp Tho Ton Asp His Ass His Dha
	1692 1693	His Leu Lys Gly Ala Ser Ala Asn Trp Trp Asn His Arg His Phe
	1693 1694	1 5 10 15 Clarkie Nie Ala Luc Pro Aen Tle Phe Nie Luc Aen Pro Aen Val
	1694 1695	Gln His His Ala Lys Pro Asn Ile Phe His Lys Asp Pro Asp Val 20 25 30
	1696	Asn Met Leu His Val Phe Val Leu Gly Glu Trp Gln Pro Ile Glu
	1697	35 40 45
	1698	Tyr Gly Lys Lys Leu Lys Tyr Leu Pro Tyr Asn His Gln His
		-11 -11111111-

## RAW SEQUENCE LISTING PATENT APPLICATION US/09/367,013

DATE: 05/05/2000 TIME: 11:03:40

																521.50			
1699					50					55					60				
1700	Glu	Tyr	Phe	Phe	Leu	Ile	Gly	Pro	Pro	Leu	Leu	Ile	Pro	Met	Tyr				
1701		_			65		_			70					75				
1702	Phe	Gln	Tvr	Gln	Tle	Tle	Met.	Thr	Met	Ile	Va l	His	Lvs	Asn	Trp				
1703			-1-	<b></b>	80					85			-1-		90				
	**- 7	3	T	71-		n1.	**- 7		M		<b>T</b> 1.	7	Dha	Dha					
1704	vai	Asp	ьeu	Ala	_	Ата	vaı	ser	Tyr	_	тте	Arg	Pne	Pne					
1705					95					100					105				
1706	Thr	Tyr	Ile	Pro	Phe	Tyr	Gly	Ile	Leu	Gly	Ala	Leu	Leu	Phe	Leu				
1707					110					115					120				
1708	Asn	Phe	Ile	Arg	Phe	Leu	Glu	Ser	His	Trp	Phe	Val	Trp	Val	Thr				
1709				3	125					130					135				
	C15	Mot	7.00	uic		17-1	Mot	C111	тло		C12	Glu	712	Tree					
1710	GIII	Met	ASII	птэ		vai	Mec	GIU	116	_	GIII	GIU	Ата	IYI					
1711					140		_			145		_			150				
1712	Asp	Trp	Phe	Ser	Ser	Gln	Leu	Thr	Ala	Thr	Cys	Asn	Val	Glu	GIn				
1713					155					160					165				
1714	Ser	Phe	Phe	Asn	Asp	Trp	Phe	Ser	Gly	His	Leu	Asn	Phe	Gln	Ile				
1715					170					175					180				
1716	Glu	His	His	Len	Phe	Pro	Thr	Met	Pro	Ara	His	Asn	Leu	His	Lvs				
1717	0_4				185					190					195				
	T1_	<b>33</b> -	D	T		T	000	T	G		T	1716	G1	т10			·		
1718	тте	Ala	Pro	ьеu		ьуѕ	ser	тéп	Cys		гЛя	His	GIY	TIE					
1719					200				_	205			_	_	210				
1720	Tyr	Gln	Glu	Lys	Pro	Leu	Leu	Arg	Ala	Leu	Leu	Asp	Ile	Ile	Arg				
1721					215					220					225				
1722	Ser	Leu	Lys	Lys	Ser	Gly	Lys	Leu	Trp	Leu	Asp	Ala	Tyr	Leu	His				
1723			•	-	230	•	-		-	235	-		-		240				
1724	Tage	Yaa	Ser	ије		Pro	Δησ	Agn	Thr		Glv	Lys	Glv	Cvs					
	цуз	nau	DCI	1115	245	110	y	nop	1111	250	CLY	Lys	CLY	Cyb	255				
1725	m	~1		<b>~</b> 1	_	<b>3</b>	<b>-</b>	<b>3</b>	<b>a</b> 1		<b>T</b>	Dla a	W	<b>a</b> 1					
1726	Trp	GIA	Asp	GIY		Arg	Asn	Asp	GTÅ		ьeu	Phe	хаа	GLY					
1727					260		_			265					270				
1728	Ser	Glu	Arg	Leu	Val	Tyr	Ala	Leu	Leu	Thr	Asp	Pro	Met	Leu	Asp				
1729					275					280					285				
1730	Leu	Ser	Pro	Phe	Leu	Leu	Ser	Phe	Phe	Ser	Ser	His	Leu	Pro	His				
1731					290					295					300				
1732	Ser	Thr	Leu	Pro	Ser	Trp	Asp	Leu	Pro	Ser	Leu	Ser	Arg	Gln	Pro				
1733					305					310					315				
1734	Cor	λla	Mot	<b>λ</b> Ι =		Dro	T = T	Pro	Pro		Pro	Phe	Dhe	Gln					
	PET	Ата	MEC	AIA		PIO	vai	FIO	FIO		FIO	FIIC	FIIC	GIII	-				
1735			_	_	320	_				325	_	_	_	•	330				
1736	Ala	GIu	Arg	Trp		Pro	GТĀ	Val	Ата		ser	Tyr	Leu	His					
1737					335					340					345				
1738	Leu	Pro	Leu	Lys	Met	Gly	Gly	Asp	Gln	Arg	Ser	Met	Gly	Leu	Ala				
1739					350					355					360				
1740	Cvs	Glu	Ser	Pro	Leu	Ala	Ala	Trp	Ser	Leu	Gly	Ile	Thr	Pro	Ala				
1741	-				365			-		370	-				375				
1742	T.A11	Va 1	T.e.11	Gln		T.e.11	Leu	Glv	Dhe		Glv	Ala	Glv	Pro					
	Цец	vai	Бец	GIII	380	пец	пец	GLY	FIIC	385	GLY	AIG	GIY	110	390				
1743	•		<b>~</b> 1	<b>D</b>		m1	<b>-</b>	D	77-		<b>.</b>	*** -	<b>a</b>	D					
1744	Arg	Ala	GIY	PIO			_	Pro		$\sim$	<b>\</b> / : -	His	ser		~ · ·	Link			
1745				(		345			•	$\overline{}$	1491	-			(410)	$I$ $T^{U}$	)		,
1746	Arg	Leu	Pro	Leu	Val	His	Pro	Phe	Ile	GIu	Arg	Pro	Ala	Leu	Leu		1.	esole M	A 1 - 1
1747					415					420					425		N	Solve	
1748	Gln	Ser	Ser	Gly	Leu	Pro	Pro	Ala	Ala	Arq	Leu	Ser	Thr	Arq	Gly	1		11	•
1749		–		- 4	430					435					440	- 1		MM	
1750	Leu	Ser	Xaa	Δsn		Gln	Glv	Pro	Ara		Δla	Gly	Thr	Δla		.1		V U V	
1751	Lu	JUL	11uu	A.J.P	445		-y		9	450		y			455	(1/			
TIST					443					#3U					400	•			

### RAW SEQUENCE LISTING PATENT APPLICATION US/09/367,013

DATE: 05/05/2000 TIME: 11:03:40

```
INPUT SET: S35428.raw
       Pro Asn Leu Gly Pro Trp Lys Ser Pro Pro Pro His His Xaa Ser
1752
                                                                 470
1753
                                            465
      Ala Leu Thr Leu Gly Phe His Gly Pro His Ser Thr Ala Ser Pro
1754
                                            480
1755
                       475
       Thr Xaa Ala Cys Asp Leu Gly Thr Lys Gly Gly Val Pro Arg Leu
1756
                                                                500
1757
                       490
                                            495
1758
       Leu Xaa Leu Ser Arg Gly Ser Gly His Val Gln Gly Gly Ala Gly
1759
                       505
                                            510
       Trp Pro Gly Gly Ser Ala His Pro Pro Ala Phe Pro Gln Gly Val
1760
1761
                       520
                                            525
1762
      Leu Arg Ser Lys Ile Leu Glu Gln Ser Asp Pro Ser Pro Lys Ala
                                            540
                                                                545
1763
                       535
      Leu Leu Ser Ala Gly Gln Cys Gln Pro Ile Pro Gly His Leu Ala
1764
                       550
                                           555
1765
       Pro Gly Asp Val Gly Pro Xaa
1766
1767
                       565
1768
1769
       (2) INFORMATION FOR SEQ ID NO:39:
1770
1771
1772
            (i) SEQUENCE CHARACTERISTICS.
                 (A) LENGTH 619 amino acids
1773
                 (B) TYPE: amino acid
1774
                 (C) STRANDEDNESS: single
1775
                 (D) TOPOLOGY: linear
1776
1777
           (ii) MOLECULE TYPE: amino acid (Translation of Contig 2535)
1778
1779
           (xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:
1780
1781
1782
1783
      Val Phe Tyr Phe Gly Asn Gly Trp Ile Pro Thr Leu Ile Thr Ala
1784
1785
      Phe Val Leu Ala Thr Ser Gln Ala Gln Ala Gly Trp Leu Gln His
1786
1787
1788
      Asp Tyr Gly His Leu Ser Val Tyr Arg Lys Pro Lys Trp Asn His
1789
1790
      Leu Val His Lys Phe Val Ile Gly His Leu Lys Gly Ala Ser Ala
1791
      Asn Trp Trp Asn His Arg His Phe Gln His His Ala Lys Pro Asn
1792
1793
1794
      Ile Phe His Lys Asp Pro Asp Val Asn Met Leu His Val Phe Val
1795
1796
      Leu Gly Glu Trp Gln Pro Ile Glu Tyr Gly Lys Lys Leu Lys
1797
                        95
                                           100
      Tyr Leu Pro Tyr Asn His Gln His Glu Tyr Phe Phe Leu Ile Gly
1798
1799
                       110
                                           115
1800
      Pro Pro Leu Leu Ile Pro Met Tyr Phe Gln Tyr Gln Ile Ile Met
1801
                       125
                                           130
1802
      Thr Met Ile Val His Lys Asn Trp Val Asp Leu Ala Trp Ala Val
1803
                                           145
```

## RAW SEQUENCE LISTING PATENT APPLICATION US/09/367,013

DATE: 05/05/2000 TIME: 11:03:41

INPUT SET: S35428.raw Ser Tyr Tyr Ile Arg Phe Phe Ile Thr Tyr Ile Pro Phe Tyr Gly Ile Leu Gly Ala Leu Leu Phe Leu Asn Phe Ile Arg Phe Leu Glu Ser His Trp Phe Val Trp Val Thr Gln Met Asn His Ile Val Met Glu Ile Asp Gln Glu Ala Tyr Arg Asp Trp Phe Ser Ser Gln Leu Thr Ala Thr Cys Asn Val Glu Gln Ser Phe Phe Asn Asp Trp Phe Ser Gly His Leu Asn Phe Gln Ile Glu His His Leu Phe Pro Thr Met Pro Arg His Asn Leu His Lys Ile Ala Pro Leu Val Lys Ser Leu Cys Ala Lys His Gly Ile Glu Tyr Gln Glu Lys Pro Leu Leu Arg Ala Leu Leu Asp Ile Ile Arg Ser Leu Lys Lys Ser Gly Lys Leu Trp Leu Asp Ala Tyr Leu His Lys Xaa Ser His Ser Pro Arg Asp Thr Val Gly Lys Gly Cys Arg Trp Gly Asp Gly Gln Arg Asn Asp Gly Leu Leu Phe Xaa Gly Val Ser Glu Arg Leu Val Tyr Ala Leu Leu Thr Asp Pro Met Leu Asp Leu Ser Pro Phe Leu Leu Ser Phe Phe Ser Ser His Leu Pro His Ser Thr Leu Pro Ser Trp Asp Leu Pro Ser Leu Ser Arg Gln Pro Ser Ala Met Ala Leu Pro Val Pro Pro Ser Pro Phe Phe Gln Gly Ala Glu Arg Trp Pro Pro Gly Val Ala Leu Ser Tyr Leu His Ser Leu Pro Leu Lys Met Gly Gly (419) < (405) 400 400 )395 Asp Gln Arg Ser Met Gly Leu Ala Cys Glu Ser Pro Leu Ala Ala Trp Ser Leu Gly Ile Thr Pro Ala Leu Val Leu Gln Met Leu Leu Gly Phe Ile Gly Ala Gly Pro Ser Arg Ala Gly Pro Leu Thr Leu Pro Ala Trp Leu His Ser Pro Xaa Arg Leu Pro Leu Val His Pro Phe Ile Glu Arg Pro Ala Leu Leu Gln Ser Ser Gly Leu Pro Pro Ala Ala Arg Leu Ser Thr Arg Gly Leu Ser Xaa Asp Val Gln Gly Pro Arg Pro Ala Gly Thr Ala Ser Pro Asn Leu Gly Pro Trp Lys Ser Pro Pro Pro His His Xaa Ser Ala Leu Thr Leu Gly Phe His Gly Pro His Ser Thr Ala Ser Pro Thr Xaa Ala Cys Asp Leu Gly 

Thr Lys Gly Gly Val Pro Arg Leu Leu Xaa Leu Ser Arg Gly Ser

## RAW SEQUENCE LISTING PATENT APPLICATION US/09/367,013

DATE: 05/05/2000 TIME: 11:03:41

INPUT SET: S35428.raw

																	DEI. D35420.74#	
	1857					550					555			_		560	11.	. \
	1858	GIY	His	Val	Gin	Gly		Ата	GIŸ	Trp		_	GIY	ser	Ата		Jente J. Mr	
	1859	D	D		D1	565		a1	*** 1	T	570		7	<b>-</b> 1-	T	575		
	1860	Pro	Pro	Ата	Pne		GIN	GIY	val	Leu			гуѕ	тте	Leu	Glu	1 11	
	1861	<b>~1</b> -	<b></b>	3	Desc	580	Dwa	T	770	T 011	585		<b>71</b>	<b>~1</b>	~1 m	590		
	1862	GIN	ser	Asp	Pro		PIO	ьуѕ	Ala	Leu		ser	ALA	GIY	GIII	Cys	1	
	1863	<b>~</b> 1	<b>5</b>	<b>-</b> 1-		595	774	T	<b>7</b> 7.	D	600	<b>3</b>	**- 7	a1	D	605		
	1864	GIN	Pro	TTE	Pro		HIS	ьeu	Ala	PIO		Asp	vai	GIY	PIO	Xaa	$\cup$	
	1865					610					615					620		
	1866																	
	1867																	
	1868																	
	1869	(2)	TNE	ODMA	TTON	FOR	SEO	TD 1	NO · 4	<u> </u>				•				
	1870	(2)	TIME	Ordina	1 1014	FOR	SEQ	י עד	NO. 4	υ.								
	1871		<i>(</i> i	) CF	OTTEN	CE CI	пара	משתי	ፐድሞጭ	eq		,	ה <i>א</i> ח					
>	1872		(1			ENGT					da	) '	153					
	1873					YPE:						<i>-</i>						
	1874					TRANI				ale								
	1875					OPOL				5 A C								
	1876			ι.	J, 1	J 1 J 11												
	1877		(;;	) MO:	T.FCIT	ייזי יד.ז	VDF.	ami	no a	aid.	(Trai	nelai	tion	of i	Cont	ia 25	53538a)	
	1878		(11	, 140.	DECO.	. 20	LED.	amı	110 a	ciu	(1101	iis La	CIOII	O <sub>L</sub>	COIIC	19 2.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	1879		(vi	) QF	OTTEN	CE DI	FGCP.	тотт	ON ·	SEO .	או כד	1·4n						
	1880		(71	, 56	QODIN.	C15 D1	BDCIC.		014.	JUQ .	10 11	J. 10	•					
	1881																	
	1882	Gln	Glv	Pro	Thr	Pro	Δra	Tur	Phe	Thr	Trn	Δsn	Glu	Va 1	Δla	Gln		
	1883	1	Gry	110	1111	5	ALG	- 7 -	1110	1111	10	тор	Giu	VUL	ALG	15		
	1884		Ser	G1v	Cve	Glu	Glu	Δrσ	Trn	T.e.11	_	Tle	Δsn	Δrσ	Lvs	_		
	1885	Arg	ber	GLY	Cys	20	Giu	Arg	11p	неи	25	116	мор	AL 9	пур	30		
	1886	Тчг	Δen	Tle	Ser	Glu	Phe	Thr	Δrσ	Δrσ		Pro	Glv	Glv	Ser			
	1887	-7-	NO11	110	DCI	35	1110	1111	n. 9	n g	40	110	O <sub>1</sub>	OLY	DCI	45		
	1888	Val	Tle	Ser	Hig	Tyr	Δla	Glv	Gln	Δsn		Thr	Δsn	Pro	Phe			
	1889	V 44 1	110	501	*****	50	mi	O-1	01	p	55	1114	p	110	1110	60		
	1890	Δla	Phe	His	Tle	Asn	Lvs	Glv	Len	Val		Lvs	Tvr	Met	Δsn			
	1891	AIG	1110	1113	110	65	цуБ	O.L.y	u	vul	70	цу	-1-	1100	AUII	75		
	1892	I,en	Len	Tle	Glv	Glu	Lev	Ser	Pro	Glu		Pro	Ser	Phe	Glu			
	1893	-cu			<u>y</u>	80	u			JIU	85					90		
	1894	Thr	Lvs	Asn	Lvs	Glu	Lev	Thr	Asp	Glu		Aro	Glu	Leu	Ara			
	1895		-10		-,,	95					100	3			9	105		
	1896	Thr	Va1	Glu	Ara	Met	Glv	Leu	Met	Lvs		Asn	His	Val	Phe			
	1897				3	110	1			-,-	115					120		
	1898	Leu	Leu	Tvr	Leu	Leu	His	Ile	Leu	Leu		Asp	Glv	Ala	Ala			
	1899			-1-		125					130		1			135		
	1900	Lev	Thr	Leu	Tro	Val	Phe	Glv	Thr	Ser		Lev	Pro	Phe	Leu			
	1901					140		1			145					150		
	1902	Cvs	Ala	Val	Leu	Leu	Ser	Ala	Val	Gln		Ala	Gln	Ala	Glv			
	1903	~ <i>J</i> 5				155	~~-				160				1	165		
	1904	Lev	Gln	His	Asp	Tyr	Glv	His	Leu	Ser		Tvr	Ara	Lvs	Pro			
	1905					170	1				175	- <u>1</u> -	5	-1-		180		
	1906	Tro	Asn	His	Leu	Val	His	Lvs	Phe	Val		Glv	His	Leu	Lvs			
	1907					185		-1-			190	1			-,-	195		
	,					_00			_			_	_	_				

1908 Ala Ser Ala Asn Trp Trp Asn His Arg His Phe Gln His His Ala

1961

595

# RAW SEQUENCE LISTING PATENT APPLICATION US/09/367,013

DATE: 05/05/2000 TIME: 11:03:42

INPUT SET: S35428.raw

														<b>I</b> 1	VI UI	SEI. SSS	420.TUW	
1909					200					205					210			
1910	Lys	Pro	Asn	Ile	Phe	His	Lys	Asp	Pro	Asp	Val	Asn	Met	Leu	His			
1911					215					220					225			
1912	Val	Phe	Val	Leu	Gly	Glu	Trp	Gln	Pro	Ile	Glu	$\mathtt{Tyr}$	Gly	Lys	Lys			
1913					230					235					240			
1914	Lys	Leu	Lys	Tyr	Leu	Pro	Tyr	Asn	His	Gln	His	Glu	Tyr	Phe	Phe			
1915					245					250					255			
1916	Leu	Ile	Gly	Pro	Pro	Leu	Leu	Ile	Pro	Met	Tyr	Phe	Gln	Tyr	Gln			
1917					260					265					270			
1918	Ile	Ile	Met	Thr	Met	Ile	Val	His	Lys	Asn	Trp	Val	Asp	Leu	Ala			
1919					275					280					285			
1920	Trp	Ala	Val	Ser	Tyr	Tyr	Ile	Arg	Phe	Phe	Ile	Thr	Tyr	Ile	Pro			
1921	_				290					295					300			
1922	Phe	Tyr	Gly	Ile	Leu	Gly	Ala	Leu	Leu	Phe	Leu	Asn	Phe	Ile	Arg			
1923					305					310					315			
1924	Phe	Leu	Glu	Ser	His	Trp	Phe	Val	Trp	Val	Thr	Gln	Met	Asn	His			
1925					320					325					330			
1926	Ile	Val	Met	Glu	Ile	Asp	Gln	Glu	Ala	Tyr	Arg	Asp	Trp	Phe	Ser			
1927					335					340					345			
1928	Ser	Gln	Leu	Thr	Ala	Thr	Cys	Asn	Val	Glu	Gln	Ser	Phe	Phe	Asn			
1929					350					355					360			
1930	Asp	Trp	Phe	Ser	Gly	His	Leu	Asn	Phe	Gln	Ile	Glu	His	His	Leu			
1931					365					370					375			
1932	Phe	Pro	Thr	Met	Pro	Arg	His	Asn	Leu	His	Lys	Ile	Ala	Pro	Leu			
1933					380					385					390			
1934	Val	Lys	Ser	Leu		Ala		His	Gly	Ile	Glu	Tyr	Gln	Glu	Lys	11-		
1935				(	(400)'	$\supset 3$	95		(	(405)	40	)			~4'10 <i>)</i>	.705	nusden	-
1936	Pro	Leu	Leu	Arg	Ala	Leu	Leu	Asp	Ile	IIe	Arg	Ser	Leu	Lys	Lys	_	,	,
1937					415					420					425		All.	
1938	Ser	Gly	Lys	Leu	$\operatorname{Trp}$	Leu	Asp	Ala	Tyr	Leu	His	Lys	Xaa	Ser	His		o li a	
1939					430	_	_		_	435					440		1	
1940	Ser	Pro	Arg	Asp		Val	Gly	Lys	GLY		Arg	Trp	GLY	Asp			1	
1941		_	_	_	445	_	_	_,		450		_	~7	_	455		1	
1942	GIn	Arg	Asn	Asp		Leu	ьeu	Pne	хаа	_	vaı	ser	GIU	Arg			- /	
1943	1	m		<b>.</b>	460	m1	•	<b>D</b>		465		<b>.</b>	<b>a</b>	D	470		- [	
1944	vaı	туr	Ата	ьeu		Thr	Asp	Pro	met		Asp	ьeu	ser	Pro		(	1/	
1945	T	T		Dha	475	0		77.2 ~	T	480	774	0	mh	T 011	485	`		
1946	ьеu	ьeu	ser	Pne		Ser	ser	HIS	Leu		HIS	ser	THE	ьеи				
1947	000	Ш	3	T 011	490	000	T 011	Com	7 ~~	495	Dwo	Com	777	Mot	500			
1948	ser	пъ	ASP	пеп	505	Ser	цец	per	ALG		PIO	per	Ата	Met	515			
1949 1950	T 011	Dro	17-1	Dro		Ser	Dro	Dho	Dho	510	C111	ת דת	C111	7 ~~		•		
1951	пеп	PIO	Val	PLO	520	Ser	PIO	FIIC	FIIC	525	GIY	Ala	GIU	Arg	530			
1951	Pro	Dro	C112	17a l		Leu	cor	Тугъ	T.011		Cor	T.OU	Dro	T.011				
1953	PIO	PIO	GIY	var	535	пец	per	ıyı	пец	540	per	цец	FIQ	пеп	545			
1954	Mot	Clv	Glv	7 en		Arg	Car	Mot	Gl <sub>V</sub>		בות	Cve	Glu.	Car				
1955	Mec	Gry	Gry.	мар	550	ALG	SCI	Mec	GLY	555	AIG	Cys	Gru	Ser	560			
1956	Lau	λla	λla	Тт		Leu	Gly	Tla	Thr		λla	T.011	Va 1	T.011				
1957	חבע	лта	ALG	тър	565	Leu	GIY	TTC	1111	570	ALG	neu.	Val	⊥cu	575			
1958	Met	T.e.11	T.e.u	Glv		Tla	Glv	<b>Δ</b> ] =	Glv		Ser	Δτα	Δla	Glv	Pro			
							~ <del>~</del> 7		Y					7				
1959	rice			<b>U</b> -1			•		•					•				
1959 1960					580	Trp	_		_	585					590			

600

## RAW SEQUENCE LISTING PATENT APPLICATION US/09/367,013

DATE: 05/05/2000 TIME: 11:03:42

														IN	VPUT S	SET: S35428.raw
1962	Val	His	Pro	Phe	Ile	Glu	Arg	Pro	Ala	Leu	Leu	Gln	Ser	Ser	Gly	1 /01/
1963					610					615					620	huntery
1964	Leu	Pro	Pro	Ala	Ala	Arg	Leu	Ser	Thr	Arg	Gly	Leu	Ser	Xaa	Asp	11
1965					625					630					635	$\mathcal{A}_{k}$
1966	Val	Gln	Gly	Pro	Arg	Pro	Ala	Gly	Thr	Ala	Ser	Pro	Asn	Leu	Gly.	1//
1967					640					645					650	V 1
1968	Pro	Trp	Lys	Ser	Pro	Pro	Pro	His	His	Xaa	Ser	Ala	Leu	Thr	Leu	
1969					655					660					665	
1970	Gly	Phe	His	Gly	Pro	His	Ser	Thr	Ala	Ser	Pro	Thr	Xaa	Ala	Cys	
1971					670					675					680	
1972	Asp	Leu	Gly	Thr	Lys	Gly	Gly	Val	Pro	Arg	Leu	Leu	Xaa	Leu	Ser	
1973					685					690					695	
1974	Arg	Gly	Ser	Gly	His	Val	Gln	Gly	Gly	Ala	Gly	Trp	Pro	Gly	Gly	
1975					700					705					710	
1976	Ser	Ala	His	Pro	Pro	Ala	Phe	Pro	Gln	Gly	Val	Leu	Arg	Ser	Lys	
1977					715					720					725	
1978	Ile	Leu	Glu	Gln	Ser	Asp	$\mathtt{Pro}$	Ser	Pro	Lys	Ala	Leu	Leu	Ser	Ala	
1979					730					735					740	
1980	Gly	${\tt Gln}$	Cys	Gln	Pro	Ile	Pro	Gly	His	Leu	Ala	Pro	Gly	Asp	Val	
1981					745					750			,		755	
1982	Gly	Pro	Xaa													
1983															•	
1984	A	-				_										
1985															4	
1986	-143	3 –					1		Λ	٨					, ,	1
1/987							)		V . I	1. <del>B</del>	,	~ <del>t</del>	0 .	1 1	Ask	
<b>(</b> 1988	SUB	STIT	JTE S	SHEET	ľ			0	LU	رويار			1	7	fil	
1989															J	
1990						-										

## SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/09/367,013

INPUT SET: S35428.raw

DATE: 05/05/2000

TIME: 11:03:42

T :	Emon	Original Toys
Line	Error	Original Text
33	Unknown or Misplaced Identifier	(B) (B) FILING DATE:
860	Entered (227) and Calc. Seq. Length (228) differ	(A) LENGTH: 227 amino acids
930	Entered (87) and Calc. Seq. Length (102) differ	(A) LENGTH: 87 amino acids
962	Entered (520) and Calc. Seq. Length (0) differ	(A) LENGTH: 520 nucleic acids
972	Wrong Amino Acid Designator	GGATGGAGTT CGTCTGGATC GCTGTGCGCT ACGCG
972	Wrong Amino Acid Designator	GGATGGAGTT CGTCTGGATC GCTGTGCGCT ACGCG
972	Wrong Amino Acid Designator	GGATGGAGTT CGTCTGGATC GCTGTGCGCT ACGCG
972	Wrong Amino Acid Designator	GGATGGAGTT CGTCTGGATC GCTGTGCGCT ACGCG
972	Wrong Amino Acid Designator	GGATGGAGTT CGTCTGGATC GCTGTGCGCT ACGCG
972	Wrong Amino Acid Designator	GGATGGAGTT CGTCTGGATC GCTGTGCGCT ACGCG
973	Wrong Amino Acid Designator	CTTGGGTACA CGCCGGGGCA GTCGTTGGGC ATGTA
973	Wrong Amino Acid Designator	CTTGGGTACA CGCCGGGGCA GTCGTTGGGC ATGTA
973	Wrong Amino Acid Designator	CTTGGGTACA CGCCGGGGCA GTCGTTGGGC ATGTA
973	Wrong Amino Acid Designator	CTTGGGTACA CGCCGGGGCA GTCGTTGGGC ATGTA
973	Wrong Amino Acid Designator	CTTGGGTACA CGCCGGGGCA GTCGTTGGGC ATGTA
973	Wrong Amino Acid Designator	CTTGGGTACA CGCCGGGGCA GTCGTTGGGC ATGTA
974	Wrong Amino Acid Designator	ATTTACATTT TTCTGCAGTT CGCCGTAAGT CACACC
974	Wrong Amino Acid Designator	ATTTACATTT TTCTGCAGTT CGCCGTAAGT CACACC
974	Wrong Amino Acid Designator	ATTTACATTT TTCTGCAGTT CGCCGTAAGT CACACC
974	Wrong Amino Acid Designator	ATTTACATTT TTCTGCAGTT CGCCGTAAGT CACACC
974	Wrong Amino Acid Designator	ATTTACATTT TTCTGCAGTT CGCCGTAAGT CACACC
974	Wrong Amino Acid Designator	ATTTACATTT TTCTGCAGTT CGCCGTAAGT CACACC
975	Wrong Amino Acid Designator	GATCAGCTGC ATTGGCTCGA GTACGCGCGG ACCAC
975	Wrong Amino Acid Designator	GATCAGCTGC ATTGGCTCGA GTACGCGCGG ACCAC
975	Wrong Amino Acid Designator	GATCAGCTGC ATTGGCTCGA GTACGCGCGG ACCAC
975	Wrong Amino Acid Designator	GATCAGCTGC ATTGGCTCGA GTACGCGCGG ACCAC
975	Wrong Amino Acid Designator	GATCAGCTGC ATTGGCTCGA GTACGCGCGG ACCAC
975	Wrong Amino Acid Designator	GATCAGCTGC ATTGGCTCGA GTACGCGCGG ACCAC
976	Wrong Amino Acid Designator	GGTTTGTCAC ATGGTGGATG TCGAACCTCA ACTTT
976	Wrong Amino Acid Designator	GGTTTGTCAC ATGGTGGATG TCGAACCTCA ACTTT
976	Wrong Amino Acid Designator	GGTTTGTCAC ATGGTGGATG TCGAACCTCA ACTTT
976	Wrong Amino Acid Designator	GGTTTGTCAC ATGGTGGATG TCGAACCTCA ACTTT
976	Wrong Amino Acid Designator	GGTTTGTCAC ATGGTGGATG TCGAACCTCA ACTTT
976	Wrong Amino Acid Designator	GGTTTGTCAC ATGGTGGATG TCGAACCTCA ACTTT
977	Wrong Amino Acid Designator	CGGCGCCCCA GTTCCGTTTC AAGGAGATCA GCCCG
977	Wrong Amino Acid Designator	CGGCGCCCCA GTTCCGTTTC AAGGAGATCA GCCCG
977	Wrong Amino Acid Designator	CGGCGCCCCA GTTCCGTTTC AAGGAGATCA GCCCG
977	Wrong Amino Acid Designator	CGGCGCCCCA GTTCCGTTTC AAGGAGATCA GCCCG
977	Wrong Amino Acid Designator	CGGCGCCCCA GTTCCGTTTC AAGGAGATCA GCCCG
977	Wrong Amino Acid Designator	CGGCGCCCCA GTTCCGTTTC AAGGAGATCA GCCCG
978	Wrong Amino Acid Designator	ACGGTCTCCC TTACTACGAC ATGCCCTACA CGAGC
978	Wrong Amino Acid Designator	ACGGTCTCCC TTACTACGAC ATGCCCTACA CGAGC
978	Wrong Amino Acid Designator	ACGGTCTCCC TTACTACGAC ATGCCCTACA CGAGC
978	Wrong Amino Acid Designator	ACGGTCTCCC TTACTACGAC ATGCCCTACA CGAGC
978	Wrong Amino Acid Designator	ACGGTCTCCC TTACTACGAC ATGCCCTACA CGAGC
978	Wrong Amino Acid Designator	ACGGTCTCCC TTACTACGAC ATGCCCTACA CGAGC
979	Wrong Amino Acid Designator	TCTACTCCGT CGGCCATTCC GTCGGCGACG CCAAG
979	Wrong Amino Acid Designator	TCTACTCCGT CGGCCATTCC GTCGGCGACG CCAAG
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## SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/09/367,013

DATE: 05/05/2000 TIME: 11:03:42

Line	Error	Original Text
979	Wrong Amino Acid Designator	TCTACTCCGT CGGCCATTCC GTCGGCGACG CCAAG
979	Wrong Amino Acid Designator	TCTACTCCGT CGGCCATTCC GTCGGCGACG CCAAG
979	Wrong Amino Acid Designator	TCTACTCCGT CGGCCATTCC GTCGGCGACG CCAAG
979	Wrong Amino Acid Designator	TCTACTCCGT CGGCCATTCC GTCGGCGACG CCAAG
980	Wrong Amino Acid Designator	TTAATTCCCC ACCCCACCCC ATGTTCTGTC TTCCTC
980	Wrong Amino Acid Designator	TTAATTCCCC ACCCCACCCC ATGTTCTGTC TTCCTC
980	Wrong Amino Acid Designator	TTAATTCCCC ACCCCACCCC ATGTTCTGTC TTCCTC
980	Wrong Amino Acid Designator	TTAATTCCCC ACCCCACCCC ATGTTCTGTC TTCCTC
1046	Entered (125) and Calc. Seq. Length (140) differ	(A) LENGTH: 125 amino acids
1481	Entered (411) and Calc. Seq. Length (406) differ	(A) LENGTH: 411 amino acids
1596	Entered (86) and Calc. Seq. Length (87) differ	(A) LENGTH: 86 amino acids
1682	Entered (566) and Calc. Seq. Length (562) differ	(A) LENGTH: 566 amino acids
1773	Entered (619) and Calc. Seq. Length (615) differ	(A) LENGTH: 619 amino acids
1872	Entered (757) and Calc. Seq. Length (753) differ	(A) LENGTH: 757 amino acids
1988	Wrong Amino Acid Designator	SUBSTITUTE SHEET
1988	Wrong Amino Acid Designator	SUBSTITUTE SHEET